GSM Power Socket

User Manual

GSM Power Socket

Thank you for purchasing the GSM Power Socket .

GSM Power Socket is a remote controlled socket consisting of a GSM module. The power supply output of the socket can be turned on or off remotely by the SMS (Short Message System) command or local controlled by pressing button. It is an intelligent power supply socket controlled by users' mobile phone at anytime and anywhere.

GSM Power Socket is suitable for controlling electrical appliances which power consumption less than 3000W in household or office. It is universal for all kinds of indoor power supply sockets.

With extended-connected temperature sensor, GSM power socket can switch on or off the socket output according to the environment temperature. It's available for power control of the heating or refrigeration plant, to keep the environmental temperature within presetting range or at a fixed temperature value. Furthermore, a SMS notification will be sent to master's mobile phone if GSM Power Socket detects the rapid-changing or the reaching of pre-set alert value of surroundings temperature.

GSM Power Socket is mainly applied for house and office usage. It is **not** suited for industry application, especially in humidity or dust condition.

All services and functions need to be supported by the GSM network and a SIM card.

This brochure suits for GSM Power Socket model.

Details of the functioning and advanced operation of this socket are described in this instruction manual.

CONTENT

For your safety....5
Exception clause....6
Chapter 1 Features and accessories....7
1.1 Main function....7
1.2 Package contents....8
1.3 Sockets instructions....9
1.4 Light indicator and “Beep” warning tone....10
Chapter 2 Quick start....12
2.1 Install the SIM card and temperature sensor....12
2.2 GSM Power on/ off....12
2.3 Add a Master number to the socket....13
2.4 The regulation of time....14
2.5 Socket output switching on/off....14
2.6 External power supply notification....15
Chapter 3 Advanced settings....16
3.1 Define the users....16
3.2 Change password....19
3.3 Switching on/off the socket output manually....19
3.4 Delayed-switch on/off the socket output....21
3.5 Timed switching on the socket output....22

3.6 Auto-control the socket output by temperature....24
3.7 Temperature alarm....27
3.8 SMS notification upon the socket output changing....28
3.9 SMS notification upon external power supply changing....29
3.10 “Beep” warning tone....29
3.11 Check status....30
3.12 Resetting the socket....32
Chapter 4 Maintenance....33
Chapter 5 General Troubleshooting....34
Chapter 6 Main Technical Parameters....36
Appendix: SMS commands list....37

1. **Purchase a GSM SIM card (mobile phone card) from GSM network service provider and install it in the socket. This SIM card number is referred as** GSM Power Socket **number on this brochure.**
2. **The user needs to activate the Caller ID Presentation function of SIM card, and deactivate PIN code of the SIM. Contact with GSM network service provider for support.**
3. **Change the original password at the beginning use. Be sure to keep the password and SIM card number secret. Do not disclose this information to anyone other than the authorized users in order to ensure your safety.**

For your safety

- This socket was designed for home or office use. Do not use it on the electrical appliance which is for industry or business operation, for example, iatrical appliances, large heaters and refrigerates.
- Before using this socket, make sure that the mobile phones can be used well in the area, otherwise, do not put this socket into operation.
- The power consumption of the appliances connected with the socket cannot exceed 3000W and the current cannot exceed 16A.
- The electrical appliance which power consumption is higher than 1500W must be grounded.
- Do not make two plugs of socket short circuit.
- Do not touch the socket jack by any metal objects or hand.
- This socket was designed for indoor use. Don't use it in wet, chemically aggressive or dusty environment.

- Do not open the case unless maintenance needed.
- Do not keep shaking or fall down this socket, otherwise it can be damaged.
- This socket is a wireless signal transmission socket. Keep it away from electronic equipment likely to interfere with the wireless signals, in order to avoid signals interference.
- Switch off this socket and mobile phone when entering areas marked "Explosive", "Might explode", "Closed wireless transceiver sockets" etc.
- Do not cast this socket in a fire, as this may cause explosion.
- This socket should only be operated from power approved by the socket manufacturer. The use of any other types of power may damage the socket.
- Keep the socket and its accessories out of the children reach.

Exception clause

1. We operate on a policy of continuous development. We reserve the right to make changes and improvements to any of the sockets described in this document without prior notice.
2. We don't guarantee for the document veracity, reliability or any content except regulate in proper laws. Including no guarantee for socket suitable market or suitable area promise.
3. We hold no responsibility for the illegal use of this socket.
4. We hold no responsibility for any loss of income or any special, incidental, consequential or indirect damages howsoever caused.
5. The contents of this document are provided "as is". Except as required by applicable law, no warranties of any kind, either expressed or implied, including, but not limited to the accuracy, reliability or contents of this document. We reserve the right to revise this document or withdraw it at any time without prior notice.

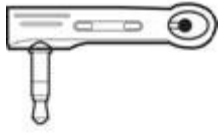
Chapter 1 Features and accessories

1.1 Main function

- This socket uses a GSM SIM card.
- Remotely operate by SMS command: The socket be controlled and set by sending SMS commands.
- Input: 110V-250V/50Hz.
- Output: Max.16A for long-duration operation.
- Relay: 30A/250V relay with two working status power on/off for output outlet.
- M button: To manual control output power on/off.
- Delayed control socket output.
- Auto operates by preset schedule: Fixing-time control output power on/off.
- External temperature sensor supported: Send environmental temperature SMS to mobile phone.
- Auto operates by temperature: Available for power control of the heating or refrigeration plant, to keep the environmental temperature within presetting range or at fixed temperature value.
- SMS alarm when temperature rapid-changing or reaching the pre-set value: When it detects the rapid-changing or the reach of pre-set alert value of surroundings temperature, it can auto-send the SMS alarm message to master's mobile phone.
- Support 5 mobile phone users.
- Auto time-synchronization.
- SMS notification upon external power source changing.

1.2 Package contents

GSM power socket（1 unit）



Temperature sensor（1 unit）

User manual（1 unit）

1.3 Sockets instructions

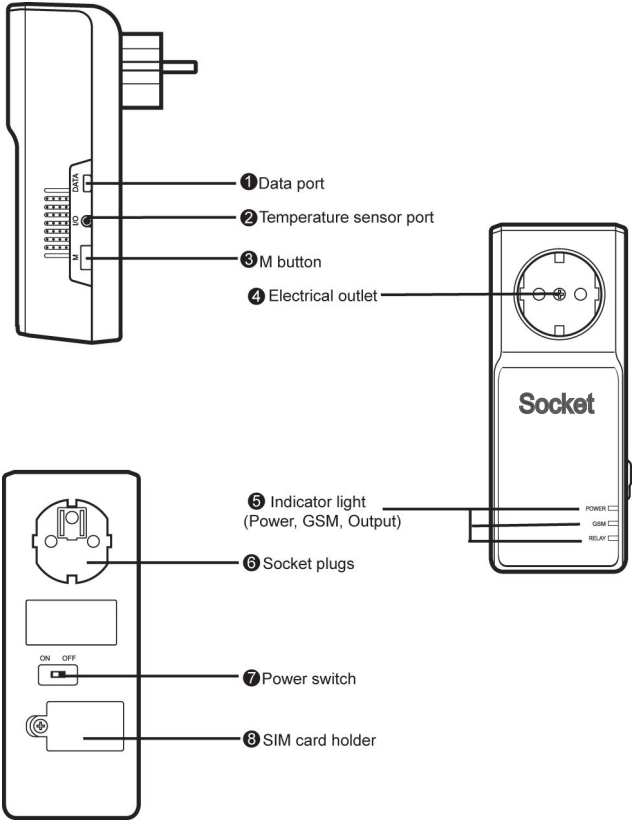


Figure 1: GSM Power Socket instructions

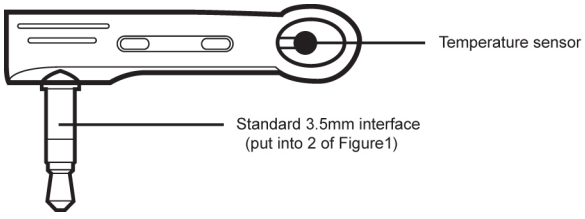


Figure 2: Temperature sensor Instruction

1.4 Light indicator and "Beep" warning tone

Indicator	Action	Status
Power (Green) light	Turning off	No power supply input
	Constant light	Has power supply input
GSM (Blue) light	Turning off	Not installed SIM card, or the power switch of socket is "OFF".
	Flash	Be busy or searching GSM network.
	Constant light	Successfully load to GSM network.
Output (Red) light	Constant light	The socket outlet has power supply.
	Turning off	The socket outlet cuts power supply.

“Beep” warning tone (Default turning off)	One time	The socket outlet changes power supply status.
	Several times	GSM Power Socket lost external power supply.
	Long Beep	GSM Power Socket is successfully register GSM network, or it is successfully reset to its factory settings.

Note: The “Beep” warning tone can be turn on or turn off by SMS command. Refer to Chapter 3.9 for details.

Chapter 2 Quick start

2.1 Install the SIM card and temperature sensor

- Turn the power switch to “OFF” position.
- Loosen the screw and open the socket’s SIM cover; you will see a SIM card holder.
- Push the metallic cover of the holder to “OPEN” direction and open the SIM card holder.
- Put the SIM card on the card holder, ensuring that the beveled corner is toward the beveled corner of the SIM holder and the golden contact area is facing downwards.
- Cover back the metallic cover and push it to “LOCK” direction. The SIM card will be fixed in the holder.
- Screw the SIM cover back.
- Insert the temperature sensor into the I/O port until it is seized.

2.2 GSM Power on/ off

Power on:

1. Turn the power switch to “On” position (See 7 on Figure1).
2. Plug the GSM Power Socket in an AC power socket (See 6 on Figure1).
   The blue light will be flashing slowly for about 20 seconds, then blue light be on constantly and a long “Beep” tone can be heard (if “Beep” warning tone is enabled).

The default state of the socket outlet is no power supply output.

3. Insert the plug of electronic appliance in the GSM Power Socket electrical outlet (See 4 on Figure1).

4. **M button** (See 3 on Figure1) can be pressed for about 0.5 second to switch on or off the output of socket.
   After adding user numbers to the socket, users can send SMS command to control the power supply output. (Refer to Chapter 3.2)

Power off:

1. Turn the power switch to "Off" position. The blue light turns off.
2. The socket outlet can work as a normal power socket. GSM Power Socket can not be controlled by SMS commands. M button is disabled.

Note:

1. If the GSM indicator light is not constant lights, which imply the SIM card working abnormally, all functions of this socket are invalid.
2. Check GSM network signal of the using place:
   - The GSM network's signal strength may affect the socket feature. Therefore, before using, the user should ensure that GSM Power Socket is used in an area with a strong GSM network signal.
   - For the first time use, the user should perform a test-run by sending SMS to the socket. This allows the user to check the GSM network connection of the socket.

2.3 Add a Master number to the socket

The user must edit and send the following SMS to socket via his/her mobile phone (the phone number will be the **Master** number) in order to:

Add a Master number to the socket: #00#

☺ **Successful SMS reply**

Welcome to use GSM Power Socket.
Your Password is:1234.

2.4 The regulation of time

Important note

If GSM Power Socket is being used for the first time, or it has been reset, the **Master** user must adjust the socket time according to the current time of SMS center. Otherwise, GSM Power Socket will use the original time from 00:00:00, 1st.Jan.2004.

Method

The **Master** user sends following SMS message in order to:

Regulate the socket time: #152#*SIMCardNumber*# (1)

- The **SIMCardNumber** should be the SIM card number of GSM Power Socket .

Successful SMS reply

The socket current time is yyyy/mm/dd hh:mm.

2.5 Socket output switching on/off

Method

Method 1：To press **M button 0.5 second** (See 3 on Figure1).

Method 2：

The **Master** user sends following SMS message to socket in order to:

Switch on the socket output: #01#

Switch off the socket output: #02#

Successful SMS reply

Status: ON/OFF

Temp:**

Temp control: function ON/OFF

Schedule control: function ON/OFF

Delay control: function OFF

2.6 External power supply notification

GSM Power Socket will notify the user when the external power changes. The “Beep, Beep…” tones will be heart (if enabled), also a SMS notification will be sent if the SIM card is available:

Lost external power supply:
If the plug of GSM Power Socket is disconnected from external AC power or lost of the AC power occurs, all operating on GSM Power Socket is de-activated, including M button and all SMS commands. GSM Power Socket will notify the user “Main electricity supply lost Temp:**”.

Resume external power supply:
If the AC power of GSM Power Socket is available again, the SMS notification will be sent to the user, i.e.” Main electricity supply restore Status: ON/OFF Temp:**”
When the external power supply is resumed, the output of GSM Power Socket will keep its previous working status. For example, if the output is switched on before the external power supply cut off, the output will be switched on when the external power supply is resumed.
If the power supply is switched on and off frequently, GSM Power Socket will send reminding SMS messages.
The SMS notification upon external power supply changing can be disabled. (Refer to Chapter 3.8)

Chapter 3 Advanced settings

3.1 Define the users

3.1.1 User authorization level

All the settings of GSM Power Socket can be set or adjusted via a SMS command.
There are two mobile phone user controlling levels:

Master user**:**

Only one **Master** user has authorization to use all features of GSM Power Socket.

In order to enable all the functions on the socket, the **Master** user must store his/ her mobile number in the socket's memory. Only one **Master**'s mobile number (**Master** number) is allowed for a socket.

Family users**:**

There are four **Family** users have authorization to use two commands of switch on or cut off the socket output.

The other mobile phone users have no authorization to use GSM Power Socket .

3.1.2 About the SMS Command

- **Master user's SMS command format:** #code#content#.
- **Family users' SMS command format:** #code#content#password#.
- The password must be a four-digit number.
- The original password is 1234.
- The maximum digits that are allows for the phone number is sixteen.

- GSM Power Socket will reply to the user after it receives the SMS command.

Note

- The "#" symbol must not be ignored when typing an SMS command.
- No allow any space within the commands.

3.1.3 Add a master number to the socket

Description

If GSM Power Socket is being used for the first time, or GSM Power Socket has been reset to factory settings, the Master user's number must be programmed into the socket.

Method

The user must edit and send the following SMS to socket via his/her mobile phone (the phone number will be the **Master** number) in order to:

Add a master number to the socket: #00# **(2)**

Successful SMS reply

Welcome to use GSM Power Socket.
Your Password is:1234..

Failed SMS reply

If a user tries to add another **Master** user again, GSM Power Socket will send a notification via SMS stating "The master user already exists.". The Master number should be changed. (Refer to Chapter 3.1.4)

3.1.4 Change the master number

Method

Method 1:

The **Master** user sends following SMS message in order to:

Change the master user's number: #14#***NewMasterNumber*** **(3)**

- ***NewMasterNumber*** should be the new Master user's mobile phone number.

Method 2:

GSM Power Socket should be reset to factory settings to remove old Master number before setting the new one. (Refer to Chapter 3.11)

☺ **Successful SMS reply**

New master number set successfully.
Successful SMS reply will be sent to the new **Master** user. Then the old **Master** user's number will not be able to control GSM Power Socket anymore.

3.1.5 Add a family number

Up to 4 ***family*** users' number can be stored on one socket.
Family users have the authority to send SMS command to switch on or cut off the GSM Power Socket output. The **family** users should remember and safeguard the socket's SIM number.

Method

The **Master** user sends following SMS message in order to:

Add a family number:

#06#***FamilyNumber***# **(4)**

Add several family numbers:

#06#***FamilyNumber1***#...#***FamilyNumber4***# **(5)**

- ***FamilyNumber*** should be the **Family** user's mobile phone number.

☺ **Successful SMS reply**

#******# Family numbers set successfully.

3.1.6 Check family user's number

Refer to Chapter 3.10 Check status.

3.1.7 Delete family number

Method

The **Master** user sends following SMS message in order to:

Delete a family number: #113#***FamilyNumber#*** **(6)**

Delete several family numbers simultaneously:

#113#***FamilyNumber1#…#FamilyNumber4#*** **(7)**

Delete all family numbers: #113# **(8)**

Successful SMS reply

#******# Family number has been deleted.

Failed SMS reply

#******# The family number does not exist.

3.2 Change password

Method

The **Master** user sends following SMS message in order to:

Change the password: #04#***Oldpassword#Newpassword#*** **(9)**

- The ***password*** is a four digit number.
- The original ***password*** is 1234.

Successful SMS reply

New password is ****.

3.3 Switching on/off the socket output manually

Description

- When the socket output is switching on, GSM Power Socket offers power supply for electronic appliance which being connected with it; the red indicator light is lighted constantly. Otherwise, GSM Power Socket has no power supply for electronic appliance and the red light is turned off.
- **Note:** If the socket output status is changed manually (including pressing the **M** button, sending SMS, making phone call), the preset timing, delaying or temperature control of the socket will be **invalid**

automatically and a SMS notification message will be sent to the Master, but the setting time range and temperature range parameters will be saved until GSM Power Socket is reset to factory settings.

3.3.1 Switching on/off by SMS

Method

The **Master** user sends following SMS message in order to:

Switch on the socket output manually: #01# **(10)**

Cut off the socket output manually: #02# **(11)**

The **Family** users send following SMS message in order to:

Switch on the socket output manually: #01#***Password***# **(12)**

Cut off the socket output manually: #02#***Password***# **(13)**

- ***Password*** should be 4 digits password number. Default 1234.
- SMS reply will be also sent to Master user when Family users use these two commands to change the socket output successfully.

Successful SMS reply

Status: ON/OFF
Temp:**
Temp control: function ON/OFF
Schedule control: function ON/OFF
Delay control: function ON/OFF

3.3.2 Switching on/off by M button

Keep press **M** button on the GSM Power Socket for half a second. The OUTPUT indecator light will turn on or off to indicate that GSM Power Socket output is switching on or off.
The SMS reply is same with Chapter 3.2.1.

3.3.3 Switching on/off by calling

Description

If the **Master** user calls GSM Power Socket , the socket output will

be switched on or cut off automatically when the user hears the ring tone in the phone. The calling will be hung up automatically if the user doesn't hang up the call.

Method

The **Master** user sends following SMS message in order to:

Enable switching on/off the output by calling:

#18#1# **(14)**

Disable switching on/off the output by calling (Default):

#18#0# **(15)**

Successful SMS reply

Control the socket power output status by calling activated /de-activated.

3.4 Delayed-switch on/off the socket output

Description

- The output of GSM Power Socket can be set to delay switch on or off for a period with SMS commands.
- When the "delayed-switch on/off the socket" function is applied, the preset "timed switch on the output" function will be invalid at once.
- When the "delayed switch on the socket" command is received and if the socket output is switched on, the socket output will be switched off immediately and be switch on again as the setting delayed time is reaching. Contrarily, if the socket output is switched off, the output will remain switching off until the setting delayed time is reaching. Afther switching on the output, the following SMS reply will be sent:

  Status: ON

  Delay control: function OFF
- When the "delayed switch off the socket" command is received and if the the socket output is switched on, the socket output will remain the switch on state and be switched off as the setting delayed time is reaching. If the socket output is switched off, it will be switched on

immediately and be switch off again when reaching the setting delayed time. After switching off the socket output, the following SMS reply will be sent:

Status: OFF

Delay control: function OFF

Method

The **Master** user sends following SMS message in order to:

Delay switching on the output after a certain minutes:

#138#1#***Minutes***# **(16)**

Delay switching off the output after a certain minutes:

#138#0#***Minutes***# **(17)**

- ***Minutes*** are time parameters, its range is 0-720,
- When ***Minutes*** is 0, the "delayed switch on/off the socket" function will be invalid, but the current output status won't be changed.

Successful SMS reply

Status: ON/OFF

Output will switch off/on after * minutes.

3.5 Timed switching on the socket output

3.5.1 Enable timing switching on the output

Description

- The output of GSM Power Socket can be set to switch on for a duration and then be switch off after the duration.
- If the socket output status is changed manually (including pressing **M** button, sending SMS and making phone call), the preset timing, delaying or temperature control of the socket will be invalid automatically, but the setting time range parameters will be saved until GSM Power Socket is reset to factory settings. If these functions need to be restarted, the following SMS commands must be set: Timing #128#1#, Temperature control #159#1#, "delayed switch on/off the socket" commands need to be reset.

Method

The **Master** user sends following SMS message in order to:

Enable timing switch on the output: #128#1# **(18)**

Successful SMS reply

Schedule control: function ON

WorkDay, StartTime-EndTime

If the value of the "*WorkDay, StartTime, EndTime"* on the SMS reply are all 0, it means the time duration has not been set. (Refer to 3.4.2)

Then GSM Power Socket will keep switching on or off the output automatically according to the schedule settings.

3.5.2 Set time period to switch on the output

Description

After successful setting of time duration to switch on the socket output, the schedule parameter will be saved on the socket until GSM Power Socket is reset to factory settings.

But the "timed switch on the output" feature is applied only when command 17 be set.

Method

The **Master** user sends following SMS message in order to:

Set time period to switch on the output:

#129#***WorkDay#StartTime#EndTime#*** **(19)**

- ***WorkDay***: one digit, the values lie in the range of "0" to "8".

The following table contains the descriptions of each value:

Value	Corresponding day
0	Sunday
1	Monday
2	Tuesday
3	Wednesday
4	Thursday

5	Friday
6	Saturday
7	Everyday
8	Monday to Friday

- ***StartTime*** and ***EndTime***: Be consists of 4 digits (hh:mm) and works on a 24 hour clock. The ***StartTime*** and ***EndTime*** should be in the same day, and the ***EndTime*** must be later than ***StartTime***.
- The socket output will switch on at the ***StartTime*** and cut off at the ***EndTime***.
- For example: #129#1#0000#2130# , 0000 means time 00:00(hh:mm)AM, 2130 means time 9:30PM.

☺ **Successful SMS reply**

Schedule control: function ON/OFF
WorkDay, StartTime-EndTime

3.5.3 Disable timing switching on the output

Method

The **Master** user sends following SMS message in order to:

Disable timing switch on the output: #128#0# **(20)**

☺ **Successful SMS reply**

Schedule control: function OFF
WorkDay, StartTime-EndTime.

3.6 Auto-control the socket output by temperature

3.6.1 Enable auto-controlled by temperature

Description

- The external temperature sensor must be inserted into the **I/O** port of GSM Power Socket. The output status of the socket can be controlled by the environmental temperature automatically.
- If users don't open the "timed switch on the socket" or "delayed

switch on/off the socket" functions, the socket will control to switch on or cut off the output according to temperature setting.

- If users open the "timed switch on the socket" or "delayed switch on/off the socket" functions, the temperature control function will only be valid when power output is switch on (including timed switch on or delayed switch on time period).
- For example: GSM Power Socket is used for the power control of the heating apparatus. If users set the socket output on when indoor temperature is bellow 20 degrees and off when indoor temperature is above 28 degrees. Meanwhile, users set the GSM Power Socket output is on from 9am to 5pm. In this case, the socket will control to switch on or off the output according to indoor temperature automatically from 9am to 5pm duration.

Method

The **Master** user sends following SMS message in order to:

Enable auto-control the output by temperature: #159#1# **(21)**

Successful SMS reply

Status: ON/OFF
Temp control: function ON
Temp: **
Mode: Heating/Cooling
Range: *LowTemp ~ HighTemp*

Then GSM Power Socket can switch on or off the output automatically according to the temperature range setting.

3.6.2 Set temperature range to switch on/off the output

Description

After successful setting of temperature range, the temperature parameter will be saved on the socket until GSM Power Socket is reset to factory settings.

But the "Auto-controlled by temperature" feature is applied only

when command 20 be set.

Method

The **Master** user sends following SMS message in order to:

Set temperature range to switch on/off the output:

#159#***Mode*#*LowTemp*#*HighTemp*#** **(22)**

- ***Mode*** is the control selection:
  For coldness, mode=1. For warmness, mode=0.
- ***LowTemp*** and ***HighTemp*** means temperature value, the range is -10 to 50 centigrade degree, if ***LowTemp*** equals to ***HighTemp***, constant temperature control will be actived.
- Temperature unit is degree Celsius.
- Example 1: set commands: #159#0#10#20#, if the environmental temperature is 5 degrees (bellow the limitation of 10 degrees in the command), the socket output will be switched on to power heating apparatus; and if the environmental temperature is 24 degrees (above the limitation of 20 degrees in the command), the socket output will be switched off and the heating apparatus stops working;
- Example 2: set commands: #159#1#10#20#, if the environmental temperature is 26 degrees (above the limitation of 20 degrees in the command), the socket output will be switched on to power cooling apparatus; and when the environmental temperature is 7 degrees (bellow the limitation of 10 degrees in the command), the socket output will be off, cooling apparatus stops working.

Successful SMS reply

Status: ON/OFF
Temp control: function ON/OFF
Temp: **
Mode: Heating/Cooling
Range: *LowTemp ~ HighTemp*

3.6.3 Disable auto-controlled by temperature

Method

The **Master** user sends following SMS message in order to:

Disable auto-control the output by temperature: #159#0# **(23)**

☺ **Successful SMS reply**

Status: ON/OFF
Temp control: function OFF
Temp: **
Mode: Heating/Cooling
Range: *LowTemp ~ HighTemp*

3.7 Temperature alarm

3.7.1 Over-temperature alarm

🕮 **Description**

A range of temperature can be pre-set onto the socket. In this case, if the surroundings temperature is detected out of the pre-set temperature range, the GSM Power Socket will auto-send the SMS alarm message to master's mobile phone.

This feature depends on the temperature sensor.

Method

The **Master** user sends following SMS message in order to:

Enable over-temperature alarm: #170#1# **(24)**

Set limits of temperature: #170#*MinTemp*#*MaxTemp*# **(25)**

- **MinTemp** and **MaxTemp**: The values can be set within the range of -10 to 50 centigrade degree.
  Default **MinTemp** is 20 and **MaxTemp** is 30 centigrade degree.

Disable the alarm upon going beyond limits temperature:
#170#0# **(26)**

☺ **Successful SMS reply**

Temperature alert: function ON/OFF
Min Temp.:**
Max Temp.: **.

3.7.2 Temperature rapid-changing alarm

Description

A time period value and temperature changing value can be pre-set onto the socket. In this case, if the surroundings temperature change to the pre-set value within the pre-set time period, a SMS alarm message will be auto-sent to master's mobile phone.

This feature depends on the temperature sensor.

Method

The **Master** user sends following SMS message in order to:

Enable the temperature rapid changing alarm: #160#1# **(27)**

Set time period and temperature changing value:

#160#*Temp*#*Time*# **(28)**

- **Temp:** The values lie in the range of 1 to 50 centigrade degree.
- **Time:** The values lie in the range of 1 to 300 minutes.
- Default Temp is 2 degree and Time is 1 minute.

Disable the temperature rapid changing alarm: #160#0# **(29)**

Successful SMS reply

Fast temperature changing.: function ON/OFF

Delta:**

Time:* minutes

3.8 SMS notification upon the socket output changing

Description

GSM Power Socket will default notify the user when the state of the socket output is changed with a SMS notification. The Master user can enable/disable this SMS notification.

Method

The **Master** user sends following SMS message in order to:

SMS notification upon the socket output changing (Default):

#11#1# **(30)**

No SMS notification upon the socket output changing:

#11#0# **(31)**

☺ **Successful SMS reply**

Set no SMS notification when socket output changed.
Set SMS notification once socket output changed.

3.9 SMS notification upon external power supply changing

🕮 **Description**

GSM Power Socket will default notify the user when the state of the external power supply is changed with a SMS notification. For example:

Main electricity supply lost
Temp:**

or

Main electricity supply restore
Status: ON
Temp:**

The **Master** user can enable/disable this SMS notification.

Method

The **Master** user sends following SMS message in order to set:

SMS notification upon the power supply changing (Default):
#12#1# **(32)**

No SMS notification upon the power supply changing: #12#0# **(33)**

☺ **Successful SMS reply**

(No) SMS notification upon main electricity supply changing.

3.10 "Beep" warning tone

🕮 **Description**

A "Beep" warning tone will be sounded if the work state of GSM Power Socket is changed. The "Beep" warning tone is default turning off. The **Master** user can enable it by sending SMS command.

Method

The **Master** user sends following SMS message in order to:

Enable the "Beep" warning tone: #19#1# **(34)**

Disaable the "Beep" warning tone (Default): #19#0# **(35)**

☺ **Successful SMS reply**

Beep alarm activated/de-activated.

3.11 Check status

Method

The **Master** user sends following SMS message in order to:

Check socket operating status: #07# **(36)**

After receiving the SMS commands, GSM Power Socket will reply one SMS message of socket status checking:

Number:**********,**********
Status: ON/OFF
TEMP:**
Temp control:function ON/OFF
Schedule control:function ON/OFF
Delay control:function ON/OFF

Check socket output status: #000# **(37)**

After receiving the SMS commands, GSM Power Socket will reply one SMS message of socket output status:

Status: ON
Temp:23.

Check "delayed switch on/off the socket" parameters: #138# **(38)**

After receiving the SMS commands, GSM Power Socket will reply one SMS message of "Delayed switch on/off the socket" parameters checking:

Status: ON/OFF
Output will switch off/on after ** minutes.

Check "Timing switch on the socket" parameters: #128# **(39)**

After receiving the SMS commands, GSM Power Socket will reply one

SMS message of “Timing switch on the socket” parameters:

Schedule control: function ON/OFF

WorkDay, StartTime-EndTime.

Check “Temperature control” parameters: #159# **(40)**

After receiving the SMS commands, GSM Power Socket will reply one SMS message of temperature parameters checking:

Status: ON/OFF

Temp control: function ON/OFF

Temp: **

Mode: Heating/Cooling

Range: *LowTemp ~ HighTemp*

If “No temperature sensor connected” be received, it means GSM Power Socket cannot detect the temperature sensor. User needs to check if the temperature sensor is inserted to the I/O port.

Check “temperature rapid changing alarm” parameters: #160# **(41)**

After receiving the SMS commands, GSM Power Socket will reply one SMS message of parameters. It means SMS alarm message will be sent upon the surrounding temperature changes “Delta” centigrade degree within * minutes:

Fast temperature changing.: function ON/OFF

Delta: *

Time: * minutes

Check “over-temperature alarm limits” parameters: #170# **(42)**

After receiving the SMS commands, GSM Power Socket will reply one SMS message of parameters. It means SMS alarm message will be sent upon temperature reaches MinTemp or MaxTemp centigrade degree:

Temperature alert: function OFF

Min Temp.: **

Max Temp.: **

3.12 Resetting the socket

Description

- This function resets all programmed settings to their original values, including cleaning all user number, timing parameter and temperature parameter.
- If the setting status is wrong or the malfunctions can't be corrected, users can restore the socket to its original status to make it work normally.

Note

This function needs to be used carefully as it also erases all setting values.

Method

Method 1: Press the side **M** button of the device for 5 seconds.

Method 2: The **Master** user sends following SMS message to GSM Power Socket in order to:

Reset the socket: #08# **(43)**

Successful SMS reply

Reset the socket to factory setting successfully.

A long "Beep" tone (if enabled) will be heard and it means resetting the socket successfully.

Chapter 4 Maintenance

- If GSM Power Socket does not in use for long time, it should be powered off.

- Store and use the remote socket in suitable temperature. Too high or too low temperature will likely to damage the socket.

- Try to keep the GSM Power Socket and all its accessories dry. Do not store and use it in the bathroom, or other place with high humidity. Do not allow pour water or other liquids into the socket, otherwise, it might cause malfunctions.

- Do not store and use the socket in dusty.

- Do not use alcohol, acetone and other similar solvents to clean it. Wipe it with soft-wet cloth.

- Do not attempt to open it except as instructed. If the socket does not work normally, try to resolve it as the guide of the "general troubleshooting", if to the problem can not be solved, contact with the dealer immediately.

Chapter 5 General Troubleshooting

No.	General Trouble	Possible Reason	Solution
1	Power indicator light turns off	No power input.	Check GSM Power Socket 's external AC power is available.
2	GSM indicator light turns off	Can't find or identify the SIM card. The power switch is OFF.	SIM card no install properly: Power off the socket and check it again. Power on the socket.
3	Socket output cannot be changed by M button.	No power input. The power switch is OFF.	Check GSM Power Socket's external AC power is available. Power on the socket.
4	All functions disable (Indicator is working)	Caller ID presentation do not active, insufficient fee of the SIM card.	Contact network provider to active SIM card function. Pay for the card.
5	Socket didn't response of any operation.	GSM Power Socket work abnormally.	Switch off the power, check SIM card, or reset factory setting.
6	After power on the socket, GSM indicator keeps flashing.	Network signal weak or network busy.	If mobile phone's signal is weak too, place the socket at other place with strong signal and try again.

No.	General Trouble	Possible Reason	Solution
		SIM card PIN code actives.	Close the PIN code.
		SIM card invalid.	Contact with local operator to check of it.
7	The master number already exists.	Other master is already set in the socket.	Change Master number or recover to factory default setting.
8	Invalid format. Please check and try again.	Invalid command.	Refer to the user manual.
9	No authorization user		Use the Master mobile phone to try the command again.

Note: If the problem can't be solved with above guidelines, contact to your local distributor or after service center.

Chapter 6 Main Technical Parameters

Input power socket	110~230V/50HZ, CEE 7/7 hybrid Schuko/French plug
Output power socket	110~ 230V/50HZ, 230V/30A(30s), 16A long-duration, CEE7/4 German “Schuko”
Operating temperature	-10℃~+50℃
Store temperature	-20℃~+60℃
Relative humidity	10-90%，without condensation
Communication protocols	GSM PHASE 2/2+ (including data operation)
Data interface	GSM SIM 1.8V/3.0V socket
External temperature sensor	-10℃~50℃
GSM working band	GSM850, EGSM900, DCS1800 ,PCS1900 Optional

Appendix: SMS commands list

Category	Function	Command
Time	Regulate the socket time	(1) #152#**SIMCardNumber**#
Define the users	Add a master number to the socket	(2) #00#
	Change the master user's number	(3)#14#***NewMaster Number***#
	Add a family number	(4)#06#***FamilyNumber***#
	Add several family numbers	(5)#06#***FamilyNumber1***#...#***FamilyNumber4***#
	Delete a family number	(6) #113#***FamilyNumber***#
	Delete several family numbers simultaneously	(7)#113#***FamilyNumber1***#…#***FamilyNumber4***#
	Delete all family numbers	(8) #113#
	Change the password	(9) #04#***Oldpassword***# ***Newpassword***#
Switching on/off output manually	Master user switches on the socket output manually	(10) #01#
	Master user cuts off the socket output manually	(11)#02#
	Family user switches on the socket output manually	(12) #01#***Password***#
	Family user cuts off the socket output manually	(13) #02#***Password***#
	Enable switching on/off the output by calling	(14) #18#1#
	Disable switching on/off the output by calling (Default)	(15) #18#0#
Delay control	Delay switching on the output after a certain minutes	(16) #138#1#***Minutes***#

Category	Function	Command
	Delay switching off the output after a certain minutes	(17) #138#0#***Minutes#***
Timing control	Enable timing switch on the output	(18) #128#1#
	Set time period to switch on the output	(19) #129#***WorkDay#******StartTime#******EndTime#***
	Disable timing switch on the output	(20) #128#0#
Temperature control	Enable auto-control the output by temperature	(21) #159#1#
	Set temperature range to switch on/off the output	(22)#159#***Mode#******LowTemp#******HighTemp#***
	Disable auto-control the output by temperature	(23) #159#0#
Over-temperature alarm	Enable the over-temperature alarm	(24) #170#1#
	Set limits of temperature	(25) #170#***MinTemp#******MaxTemp#***
	Disable the over-temperature alarm	(26) #170#0#
Temperature rapid-changing alarm	Enable the temperature rapid-changing alarm	(27) #160#1#
	Set time period and temperature changing value	(28) #160#***Temp#******Time#***
	Disable the temperature rapid-changing alarm	(29) #160#0#
SMS notification	SMS notification upon the socket output changing (Default)	(30) #11#1#
	No SMS notification upon the socket output changing	(31) #11#0#

Category	Function	Command
	SMS notification upon the power supply changing (Default)	(32) #12#1#
	No SMS notification upon the power supply changing	(33) #12#0#
"Beep" warning tone	Enable the "Beep" warning tone	(34) #19#1#
	Disaable the "Beep" warning tone (Default)	(35) #19#0#
Check status	Check socket operating status	(36) #07#
	Check Socket output status	(37) #000#
	Check "Delayed switch on/off the socket" parameters	(38) #138#
	Check "Timed switch on the socket" parameters	(39) #128#
	Check "Temperature control" parameters	(40) #159#
	Check "temperature rapid-changing alarm" parameters	(41) #160#
	Check "over-temperature alarm" parameters	(42) #170#
Reset to factory settings	Reset the socket	(43) #08#

GSM Power Socket